INDEX TO VOLUME 26

AUTHOR INDEX

A

ABBS, E. T. The release of catechol amines by choline 2,6-xylyl ether, bretylium and guanethidine, 162

ABDUL HAMEED, J. M., and HALEY, T. J. Psychosedative properties of three indolyl-ethyl-piperazine derivatives, 186

ADAM, K. R., SCHMIDT, H., STÄMPFLI, R., and WEISS, C. The effect of scorpion venom on single myelinated nerve fibres of the frog, 666

AGERSBORG, H. P. K., BATCHELOR, A., CAMBRIDGE, G. W., and RULE, A. W. The pharmacology of penamecillin, 649

B

BARKER, L. R., BUEDING, E., and TIMMS, A. R. The possible role of acetylcholine in *Schistosoma mansoni*, 656

BARRETT, A. M. The effect of chlorophenoxyisobutyric acid on the release of free fatty acids from isolated adipose tissue *in vitro*, 363

BATCHELOR, A. *See* AGERSBORG, H. P. K., *et al.*, 649

BEBBINGTON, A., BRIMBLECOMBE, R. W., and ROWSELL, D. G. The interaction of muscarinic drugs with the postganglionic acetylcholine receptor, 68

——, ——, and SHAKESHAFT, D. The central and peripheral activity of acetylenic amines related to oxotremorine, 56

BENFEY, B. G., and VARMA, D. R. Antisympathomimetic and antifibrillatory effects of pronethalol and propranolol, 3

BERÁNKOVÁ-KSANDROVÁ, Z., BISSET, G. W., JOŠT, K., KREJČÍ, I., PLIŠKA, V., RUDINGER, J., RYCHLÍK, I., and ŠORM, F. Synthetic analogues of oxytocin acting as hormonogens, 615

BERECZKY, G. M. *See* BOYD, E. M., *et al.*, 606

BERGMANN, F., ISHAY, I., and KIDRON, Miriam. Pharmacologically active substances in the faeces of the oriental wasp, *Vespa orientalis*, F., 229

BHAGAT, B., BOVELL, G., and RAGLAND, R. Restoration of the response to tyramine by metaraminol in reserpinized cats, 358

BHARGAVA, K. P., and GUPTA, M. L. A study of central adrenergic mechanisms in the regulation of the oestrous cycle of albino mice, 601

BIRTLEY, R. D. N., ROBERTS, J. B., THOMAS, B. H., and WILSON, A. Excretion and metabolism of [^{14}C]-pyridostigmine in the rat, 393

BISSET, G. W. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615

BLACKWELL, B., and MARLEY, E. Interactions of cheese and of its constituents with monoamine oxidase inhibitors, 120

BLACKWELL, B., and MARLEY, E. (*cont.*)

——, ——. Interactions of yeast extracts and their constituents with monoamine oxidase inhibitors, 142

BOURA, A. L. A., and FITZGERALD, A. E. The pharmacology of *N*-(cyclopropylmethyl)-19-isopentylnororvinol hydrochloride. A potent and long-lasting central depressant, 307

BOVELL, G. *See* BHAGAT, B., *et al.*, 358

BOYD, E. M., and BERECZKY, G. M. Liver necrosis from paracetamol, 606

BRIMBLECOMBE, R. W. *See* BEBBINGTON, A., *et al.*, 56, 68

BROWN, D. A. Depolarization of normal and preganglionically denervated superior cervical ganglia by stimulant drugs, 511

——. Effects of hexamethonium and hyoscine on the drug-induced depolarization of isolated superior cervical ganglia, 521

——. Electrical responses of cat superior cervical ganglia *in vivo* to some stimulant drugs and their modification by hexamethonium and hyoscine, 538

——. Some effects of staphylococcal α-toxin on the cardiovascular system, 580

BUEDING, E. *See* BARKER, L. R., *et al.*, 656

C

CALAM, D. H. Histamine protection produced by oak gall extracts, 697

CAMBRIDGE, G. W. *See* AGERSBORG, H. P. K., *et al.*, 649

CHILD, K. J., and DODDS, M. G. Mechanism of urinary excretion of cephaloridine and its effects on renal function in animals, 108

CHRUSCIEL, M., and VARAGIĆ, V. The effect of galantamine on the blood pressure of the rat, 295

CLARKE, S., HAY, G. A., and VAS, C. J. Therapeutic action of methixene hydrochloride on parkinsonian tremor and a description of a new tremor-recording transducer, 345

CLARKSON, T. W., and GREENWOOD, M. The mechanism of action of mercurial diuretics in rats: the renal metabolism of *p*-chloromercuribenzoate and its effects on urinary excretion, 50

COTES, P. Mary, MOSS, G. F., MUIR, A. R., and SCHEUER, P. J. Distribution of iron in maternal and foetal tissues from pregnant rhesus monkeys treated with a single intravenous infusion of [^{59}Fe]iron dextran, 633

CUMMINGS, A. J., MARTIN, B. K., and RENTON, R. The elimination of salicylic acid in man: serum concentrations and urinary excretion rates, 461

D

DODDS, M. G. *See* CHILD, K. J., *et al.*, 108

INDEX TO VOLUME 26

AUTHOR INDEX

A

ABBS, E. T. The release of catechol amines by choline 2,6-xylyl ether, bretylium and guanethidine, 162

ABDUL HAMEED, J. M., and HALEY, T. J. Psychosedative properties of three indolyl-ethyl-piperazine derivatives, 186

ADAM, K. R., SCHMIDT, H., STÄMPFLI, R., and WEISS, C. The effect of scorpion venom on single myelinated nerve fibres of the frog, 666

AGERSBORG, H. P. K., BATCHELOR, A., CAMBRIDGE, G. W., and RULE, A. W. The pharmacology of penamecillin, 649

B

BARKER, L. R., BUEDING, E., and TIMMS, A. R. The possible role of acetylcholine in *Schistosoma mansoni*, 656

BARRETT, A. M. The effect of chlorophenoxyisobutyric acid on the release of free fatty acids from isolated adipose tissue *in vitro*, 363

BATCHELOR, A. *See* AGERSBORG, H. P. K., *et al.*, 649

BEBBINGTON, A., BRIMBLECOMBE, R. W., and ROWSELL, D. G. The interaction of muscarinic drugs with the postganglionic acetylcholine receptor, 68

——, ——, and SHAKESHAFT, D. The central and peripheral activity of acetylenic amines related to oxotremorine, 56

BENFEY, B. G., and VARMA, D. R. Antisympathomimetic and antifibrillatory effects of pronethalol and propranolol, 3

BERÁNKOVÁ-KSANDROVÁ, Z., BISSET, G. W., JOŠT, K., KREJČÍ, I., PLIŠKA, V., RUDINGER, J., RYCHLÍK, I., and ŠORM, F. Synthetic analogues of oxytocin acting as hormonogens, 615

BERECZKY, G. M. *See* BOYD, E. M., *et al.*, 606

BERGMANN, F., ISHAY, I., and KIDRON, Miriam. Pharmacologically active substances in the faeces of the oriental wasp, *Vespa orientalis*, F., 229

BHAGAT, B., BOVELL, G., and RAGLAND, R. Restoration of the response to tyramine by metaraminol in reserpinized cats, 358

BHARGAVA, K. P., and GUPTA, M. L. A study of central adrenergic mechanisms in the regulation of the oestrous cycle of albino mice, 601

BIRTLEY, R. D. N., ROBERTS, J. B., THOMAS, B. H., and WILSON, A. Excretion and metabolism of [^{14}C]-pyridostigmine in the rat, 393

BISSET, G. W. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615

BLACKWELL, B., and MARLEY, E. Interactions of cheese and of its constituents with monoamine oxidase inhibitors, 120

BLACKWELL, B., and MARLEY, E. (*cont.*)

——, ——. Interactions of yeast extracts and their constituents with monoamine oxidase inhibitors, 142

BOURA, A. L. A., and FITZGERALD, A. E. The pharmacology of *N*-(cyclopropylmethyl)-19-isopentylnororvinol hydrochloride. A potent and long-lasting central depressant, 307

BOVELL, G. *See* BHAGAT, B., *et al.*, 358

BOYD, E. M., and BERECZKY, G. M. Liver necrosis from paracetamol, 606

BRIMBLECOMBE, R. W. *See* BEBBINGTON, A., *et al.*, 56, 68

BROWN, D. A. Depolarization of normal and preganglionically denervated superior cervical ganglia by stimulant drugs, 511

——. Effects of hexamethonium and hyoscine on the drug-induced depolarization of isolated superior cervical ganglia, 521

——. Electrical responses of cat superior cervical ganglia *in vivo* to some stimulant drugs and their modification by hexamethonium and hyoscine, 538

——. Some effects of staphylococcal α-toxin on the cardiovascular system, 580

BUEDING, E. *See* BARKER, L. R., *et al.*, 656

C

CALAM, D. H. Histamine protection produced by oak gall extracts, 697

CAMBRIDGE, G. W. *See* AGERSBORG, H. P. K., *et al.*, 649

CHILD, K. J., and DODDS, M. G. Mechanism of urinary excretion of cephaloridine and its effects on renal function in animals, 108

CHRUSCIEL, M., and VARAGIĆ, V. The effect of galantamine on the blood pressure of the rat, 295

CLARKE, S., HAY, G. A., and VAS, C. J. Therapeutic action of methixene hydrochloride on parkinsonian tremor and a description of a new tremor-recording transducer, 345

CLARKSON, T. W., and GREENWOOD, M. The mechanism of action of mercurial diuretics in rats: the renal metabolism of *p*-chloromercuribenzoate and its effects on urinary excretion, 50

COTES, P. Mary, MOSS, G. F., MUIR, A. R., and SCHEUER, P. J. Distribution of iron in maternal and foetal tissues from pregnant rhesus monkeys treated with a single intravenous infusion of [^{59}Fe]iron dextran, 633

CUMMINGS, A. J., MARTIN, B. K., and RENTON, R. The elimination of salicylic acid in man: serum concentrations and urinary excretion rates, 461

D

DODDS, M. G. *See* CHILD, K. J., *et al.*, 108

E

EAKINS, K. E., and KATZ, R. L. The action of succinylcholine on the tension of extraocular muscle, 205
ELLARD, G. A. Absorption, metabolism and excretion of di(*p*-aminophenyl)sulphone (dapsone) and di(*p*-aminophenyl)sulphoxide in man, 212
ELLIS, H. A. Effect of heparin and synthetic anticoagulants on amphibian and avian development, 421

F

FAHIM, I., ROBSON, J. M., and SENIOR, Judith B. The 5-hydroxytryptamine content of the placenta, foetus and some maternal tissues during pregnancy in the rat, 237
FAWAZ, G. The mechanism by which noradrenaline restores the pressor action of indirectly acting sympathomimetic amines in reserpinized dogs, 282
FEWINGS, J. D., RAND, M. J., SCROOP, G. C., and WHELAN, R. F. The action of nicotine on the blood vessels of the hand and forearm in man, 567
FIELDEN, R., and GREEN, A. L. Studies on the antagonism between the optical isomers of *N*-(1-phenylethyl)-guanidine, 264
FISHLOCK, D. J., and PARKS, A. G. The action of nicotine on the circular muscle of the human ileum and colon *in vitro*, 79
FITZGERALD, A. E. *See* BOURA, A. L. A., *et al.*, 307
FORMANEK, K., and KENNER, T. Special features of the action of a new diuretic, 27
FRANK, G. B., and PINSKY, C. Tetrodotoxin-induced central nervous system depression, 435
FRANKLAND, B. T. B., HOLLENBERG, M. D., HOPE, D. B., and SCHACTER, B. A. Dissociation of oxytocin and vasopressin from their carrier protein by chromatography on Sephadex G-25, 502

G

GAAL, P. G., KATTUS, A. A., KOLIN, A., and ROSS, G. Effects of adrenaline and noradrenaline on coronary blood flow before and after beta-adrenergic blockade, 713
GADDUM, Sir J. H. *Obituary*, 1
GILLIS, C. N., and PATON, D. M. Effects of hypothermia and anoxia on retention of noradrenaline by the cat perfused heart, 426
GREEN, A. L. *See* FIELDEN, R., *et al.*, 264
GREEN, D. The effect of bacterial contamination of irritants on results in rat paw oedema experiments, 302
GREENWOOD, M. *See* CLARKSON, T. W., *et al.*, 50
GUPTA, M. L. *See* BHARGAVA, K. P., *et al.*, 601

H

HAEFELY, W., HÜRLIMANN, A., and THOENEN, H. The effect of stimulation of sympathetic nerves in the cat treated with reserpine, α-methyldopa and α-methylmetatyrosine, 172
HALEY, T. J. *See* ABDUL HAMEED, J. M., *et al.*, 186
HAMEED, J. M. Abdul. *See* ABDUL HAMEED, J. M.
HARGREAVES, T. The effect of male fern extract on biliary secretion, 34
HAUSMANN, W., and TÁRNOKY, A. L. Biochemical effects of short-term treatment with carbenoxolone disodium, 412
HAY, G. A. *See* CLARKE, S., *et al.*, 345
HERTTING, G., and SUKO, J. Influence of angiotensin, vasopressin or changes in flow rate on vasoconstriction, changes in volume and [^{3}H]-noradrenaline release following postganglionic sympathetic nerve stimulation in the isolated cat spleen, 686
HOLLENBERG, M. D. *See* FRANKLAND, B. T. B., *et al.*, 502
HOPE, D. B. *See* FRANKLAND, B. T. B., *et al.*, 502
HÜRLIMANN, A. *See* HAEFELY, W., *et al.*, 172

I

ISHAY, I. *See* BERGMANN, F., *et al.*, 229

J

JACOBSEN, S. Substrates for plasma kinin-forming enzymes in human, dog and rabbit plasmas, 403
JOŠT, K. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615
JUORIO, A. V., SHARMAN, D. F., and TRAJKOV, T. The effect of drugs on the homovanillic acid content of the corpus striatum of some rodents, 385

K

KABELA, E., and MENDEZ, R. Action of propranolol on the atrioventricular node and on its response to adrenaline and isoprenaline, 473
KATTUS, A. A. *See* GAAL, P. G., *et al.*, 713
KATZ, R. L. *See* EAKINS, K. E., *et al.*, 205
KAYAALP, S. O., and KAYMAKÇALAN, Ş. A comparative study of the effects of morphine in unanaesthetized and anaesthetized cats, 196
KAYMAKÇALAN, Ş. *See* KAYAALP, S. O., *et al.*, 196
KEEN, P. M. The displacement of three anionic drugs from binding to bovine serum albumin by various anionic compounds, 704
KELLET, D. N. On the mechanism of the anti-inflammatory activity of hexadimethrine bromide, 351
KENNER, T. *See* FORMANEK, K., *et al.*, 27
KIDRON, Miriam. *See* BERGMANN, F., *et al.*, 229
KOLIN, A. *See* GAAL, P. G., *et al.*, 713
KOSTERLITZ, H. W., and WALLIS, D. I. The effects of hexamethonium and morphine on transmission in the superior cervical ganglion of the rabbit, 334
KREJČÍ, I. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615
KUPERMAN, A. S., and OKAMOTO, M. A comparison between the effects of tetraethylammonium and triethyl-(3-hydroxyphenyl)ammonium on frog neuromuscular transmission, 218

L

LEGGE, K. F., RANDIĆ, Mirjana, and STRAUGHAN, D. W. The pharmacology of neurones in the pyriform cortex, 87
LEWIS, G. P., and REIT, E. Further studies on the actions of peptides on the superior cervical ganglion and suprarenal medulla, 444
LOCHNER, W., and PARRATT, J. R. A comparison of the effects of locally and systemically administered kinins on coronary blood flow and myocardial metabolism, 17

M

MACKAY, D. A general analysis of the receptor-drug interaction, 9
MARLEY, E. *See* BLACKWELL, B., *et al.*, 120, 142
MARTIN, B. K. *See* CUMMINGS, A. J., *et al.*, 461
MATTHEWS, E. K. The presynaptic effects of quaternary ammonium compounds on the acetylcholine metabolism of a sympathetic ganglion, 552

MENDEZ, R. *See* KABELA, E., *et al.*, 473
MILTON, A. S. The effect of nicotine on blood glucose levels and plasma non-esterified fatty acid levels in the intact and adrenalectomized cat, 256
MONTI, J. M., and VIDAL-BERETERVIDE, K. Pharmacology of scopinium bromide, 591
MOSS, G. F. *See* COTES, P. Mary, *et al.*, 633
MUIR, A. R. *See* COTES, P. Mary, *et al.*, 633

N

NEAL, M. J., and ROBSON, J. M. The analgesic and anaesthetic actions of tetrafluorobenzene, 482

O

OKAMOTO, M. *See* KUPERMAN, A. S., *et al.*, 218

P

PARKS, A. G. *See* FISHLOCK, D. J., *et al.*, 79
PARRATT, J. R. *See* LOCHNER, W., *et al.*, 17
PATEL, A. A., and RAO, S. Srinivasa. Action of tetanus toxin on brain, liver and muscle mitochondria from resistant and susceptible species, 730
——, ——. Subcellular fixation of tetanus toxin in susceptible and resistant species, 740
PATON, D. M. *See* GILLIS, C. N., *et al.*, 426
PINSKY, C. *See* FRANK, G. B., *et al.*, 435
PLIŠKA, V. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615
PRIORESCHI, P. Heart phospholipids in the electrolyte-steroid cardiopathy, 723

R

RAGLAND, R. *See* BHAGAT, B., *et al.*, 358
RAND, M. J. *See* FEWINGS, J. D., *et al.*, 567
RANDIĆ, Mirjana. *See* LEGGE, K. F., *et al.*, 87
RAO, S. Srinivasa. *See* PATEL, A. A., *et al.*, 730, 740
REIT, E. *See* LEWIS, G. P., *et al.*, 444
RENTON, R. *See* CUMMINGS, A. J., *et al.*, 461
ROBERTS, J. B. *See* BIRTLEY, R. D. N., *et al.*, 393
ROBINSON, B. V., and ROBSON, J. M. Further studies on the anti-inflammatory factor found at a site of inflammation, 372
ROBSON, J. M. *See* NEAL, M. J., *et al.*, 482
——. *See* FAHIM, I., *et al.*, 237
——. *See* ROBINSON, B. V., *et al.*, 372
ROSS, G. *See* GAAL, P. G., *et al.*, 713
ROWSELL, D. G. *See* BEBBINGTON, A., *et al.*, 68
RUDINGER, J. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615
RULE, A. W. *See* AGERSBORG, H. P. K., *et al.*, 649
RYCHLÍK, I. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615

S

SCHACTER, B. A. *See* FRANKLAND, B. T. B., *et al.*, 502
SCHEUER, P. J. *See* COTES, P. Mary, *et al.*, 633
SCHMIDT, H. *See* ADAM, K. R., *et al.*, 666
SCROOP, G. C. *See* FEWINGS, J. D., *et al.*, 567
SENIOR, Judith B. *See* FAHIM, I., *et al.*, 237
SHAKESHAFT, D. *See* BEBBINGTON, A., *et al.*, 56
SHANKS, R. G. The effect of propranolol on the cardiovascular responses to isoprenaline, adrenaline and noradrenaline in the anaesthetized dog, 322
SHAPERO, M., and WILSON, Catherine. The effect of cinnamohydroxamic acid on the central nervous system, 41
SHARMAN, D. F. *See* JUORIO, A. V., *et al.*, 385
SHILLITO, Elizabeth E. A method for recording the effect of drugs on the activity of small mammals over long periods of time, 248
SMART, J. V., and TURNER, P. Influence of urinary *p*H on the degree and duration of action of amphetamine on the critical flicker fusion frequency in man, 468
ŠORM, F. *See* BERÁNKOVÁ-KSANDROVÁ, Z., *et al.*, 615
SPRIGGS, T. L. B. Peripheral noradrenaline and adrenergic transmission in the rat, 271
STÄMPFLI, R. *See* ADAM, K. R., *et al.*, 666
STRAUGHAN, D. W. *See* LEGGE, K. F., *et al.*, 87
SUKO, J. *See* HERTTING, G., *et al.*, 686
SULLIVAN, T. J. Response of the mammalian uterus to prostaglandins under differing hormonal conditions, 678

T

TARNOKY, A. L. *See* HAUSMANN, W., *et al.*, 412
THOENEN, H. *See* HAEFELY, W., *et al.*, 172
THOMAS, B. H. *See* BIRTLEY, R. D. N., *et al.*, 393
TIMMS, A. R. *See* BARKER, L. R., *et al.*, 656
TRAJKOV, T. *See* JUORIO, A. V., *et al.*, 385
TURNER, P. *See* SMART, J. V., *et al.*, 468

V

VARAGIĆ, V. *See* CHRUSCIEL, M., *et al.*, 295
VARMA, D. R. *See* BENFEY, B. G., *et al.*, 3
VAS, C. J. *See* CLARKE, S., *et al.*, 345
VIDAL-BERETERVIDE, K. *See* MONTI, J. M., *et al.*, 591

W

WALLIS, D. I. *See* KOSTERLITZ, H. W., *et al.*, 334
WEISS, C. *See* ADAM, K. R., *et al.*, 666
WHELAN, R. F. *See* FEWINGS, J. D., *et al.*, 567
WHITE, T. Histamine and methylhistamine in cat brain and other tissues, 494
WILSON, A. *See* BIRTLEY, R. D. N., *et al.*, 393
WILSON, Catherine. *See* SHAPERO, M., *et al.*, 41

SUBJECT INDEX

A

(4-Acetoxybut-2-ynyl)trimethylammonium iodide, muscarinic action and preparation of, 56

Acetylcholine, depolarization induced by, effect of hexamethonium on, in kitten superior cervical ganglia, 522, 526

——, ——, effect of hyoscine and atropine on, 525

——, ——, and effect of physostigmine on, in isolated rat superior cervical ganglion, 512

——, effect on blood flow, forearm, effect of phenoxybenzamine and hyoscine on, 570

——, effect on motor activity of *Schistosoma mansoni*, 658

——, effect on pyriform cortical cells, in cat, 89

——, in *Schistosoma mansoni*, effect on motor activity, 656

——, metabolism in physostigmine-perfused cat superior cervical ganglion, response to stimulation and quaternary ammonium compounds, 554, 555

——, response of ganglionic potential to, and effect of hexamethonium and hyoscine on, 544, 548

——, response of large and small intestine preparations to, effect of physostigmine on, 82, 83

——, response of small intestine preparation to, effect of oriental wasp faecal extract on, 230, 231, 234

Acetylenic amines, analogues of oxotremorine, toxicity and muscarinic action of, 63, 68

Acetyl-β-methylcholine, effect on pyriform cortical cells, in cat, 92

Activity, effect of antidepressants on, in mouse, 253

——, effect of M320 on, in mouse, 313

——, effect of sedatives on, in mouse, 252

——, effect of stimulants on, in mouse, 250

——, electrical, in isolated superior cervical ganglia, effect of hexamethonium and hyoscine on, 521

——, measurement and recording of, and effect of drugs on, in small mammals, 248

Adenosine triphosphate, effect on response to tetanus toxin, 744

——, in brain, liver and skeletal muscle, effect of tetanus toxin on, in rat and pigeon, 735

Adrenalectomy, effect on response of blood pressure, to galantamine, 298

Adrenaline, cardiovascular response to, and effect of propranolol on, 326

——, effect on response of heart beat and coronary blood flow, to staphylococcal α-toxin, in perfused rabbit heart, 584, 587

——, effect on spontaneous activity of large and small intestine preparations, 81, 83

——, release from spleen, effect of xylocholine, bretylium and guanethidine on, in cat, 164

——, response of coronary blood flow to, and effect of β-adrenergic blockade on, in dog, 714

——, response of release of fatty acids to, from isolated rat adipose tissue, and effect of CPIB and nicotinic acid on, 364

(−)-Adrenaline. *See* Adrenaline

Adrenergic-blocking action, on response to physostigmine, of guanethidine, bretylium, bethanidine and syrosingopine, in rat, 274

Adrenergic-blocking agents, effect on response of blood pressure, to galantamine, 298

Affinity constant, in drug-receptor interaction, 9

Albumin, plasma- and serum-, effect on adrenaline-induced release of free fatty acids, 368

Albumin (*cont.*)

——, serum-, bovine, displacement of anionic drugs from binding to, 704

Alkyltrimethylammonium compounds, dose/response of guinea-pig ileum, 13

Amino acids, in cheese, response of blood pressure to, effect of amine oxidase inhibition on, in pithed rat, 124

γ-Aminobutyric acid, effect on pyriform cortical cells, in cat, 89

***p*-Aminohippurate,** renal excretion of, effect of cephaloridine on, in cat and dog, 111

——, ——, ——, in hen, 114

***o*-Aminophenol,** conjugation with bilirubin of, in rat- and rabbit-liver, and biliary excretion of, from rat-liver, 36

Aminophylline, effect on response of heart beat and coronary blood flow to staphylococcal α-toxin, in perfused cat and rabbit heart, 584, 585, 587

Ammonium compounds, quaternary, effect on presynaptic acetylcholine metabolism, 552, 555

Amphetamine, effect on activity, in mouse, 251

——, effect on critical flicker fusion frequency, 469

——, ——, influence of urine *p*H on, 470

——, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659

——, response to, effect of indolyl-ethyl-piperazine derivatives on, in mouse, 188

——, ——, suppressant effect of cinnamohydroxamic acid on, in mouse, 43

Amyl nitrite, effect on response of aural blood flow to staphylococcal α-toxin, in adrenalectomized cat, 582

Anaesthetic action, of tetrodotoxin, in mouse, 437

——, ——, on cerebro-cortical response to electrical stimulation, in cat, 439

Analgesic action, of cinnamohydroxamic acid, on response to phenylquinone, in mouse, 44

——, of M320, 310

——, ——, antagonism by nalorphine, 317

——, of pethidine, morphine, diamorphine and codeine, potentiation by cinnamohydroxamic acid of, in mouse, 45

Angiotensin, analogues, relative activities, 446

——, effects of, compared with histamine and 5-hydroxytryptamine, 446

——, ——, on perfused chronically denervated or reserpinized cat spleen, 689

——, ——, on release of [^{3}H]-noradrenaline from perfused cat spleen, 688

——, ——, on response to postganglionic nerve stimulation in perfused cat spleen, 686, 690

——, response of perfused superior cervical ganglion to, compared with intact ganglion, 453

——, response of superior cervical ganglion to, effect of nicotine on, 451

——, ——, effect of preganglionic electrical stimulation on, 452

——, ——, in dog and rabbit, 456

——, ——, and suprarenal medulla to, in anaesthetized and spinal cat, 444

——, ——, ——, effect of morphine on, 449

Anoxia, response of noradrenaline retention to, and effect of perfusion rate on, in cat perfused heart, 428

Antiacetylcholines, effect on mammalian muscarinic receptors, compared with *Schistosoma mansoni*, 662

Antiacetylcholines (*cont.*)
——, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
Anticholinesterases, effect on blood pressure, compared with galantamine, 297
——, effect on motor activity of *Schistosoma mansoni*, 657
Anticoagulants, toxicity of, 423
Anticonvulsant action, of cinnamohydroxamic acid, in mouse, 47
Antidepressants, effect on activity, in mouse, 253
Antidiuretic activity, of oxytocin analogues, in rat, 619
Antifibrillatory effect, on response to electrical stimulus, of pronethalol and propranolol, in guinea-pig atrium, 6
Antihistamine activity, of oak gall extracts, 697
Antihistamines, effect on response of blood pressure to morphine, in cat, 199
Anti-inflammatory action, of hexadimethrine, in adrenalectomized rat, 354
——, ——, in mecamylamine-treated rat, 355
——, of polyester-sponge induced exudate, effect of dialysis on, 377
——, ——, effect of freeze-drying on, 376
——, ——, in intact and adrenalectomized rat, 372
Antileprotic action, of dapsone and di(*p*-aminophenyl)-sulphoxide, 216
Antisympathomimetic effect, on response to butyrylcholine, tyramine and noradrenaline, of pronethalol and propranolol, in guinea-pig atrium, 3
Anti-α-toxin, staphylococcal, effect on response of blood pressure to staphylococcal α-toxin, in adrenalectomized and vagotomized cat, 582
——, ——, effect on response of heart beat to staphylococcal α-toxin, in perfused cat and rabbit heart, 586
Arecoline, effect on mammalian muscarinic receptors, 662
——, effect on motor activity of *Schistosoma mansoni*, 658
Atrioventricular node, response to adrenaline and isoprenaline, effect of propranolol on, 476, 478
——, spontaneous activity of, and response to isoprenaline, in dog, 475
——, ——, and response to propranolol, 476
Atropine, effect on cardiovascular response, to propranolol, 324
——, effect on drug-induced depolarization of superior cervical ganglia, in kitten, 525
——, effect on mammalian muscarinic receptors, 662
——, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659, 662
——, effect on response of blood pressure, to galantamine, 299
——, ——, to scopinium bromide, 595
——, effect on response of extraocular muscle to succinylcholine, in anaesthetized cat, 208
——, effect on response of isolated guinea-pig ileum to acetylcholine and *Schistosoma mansoni* extract, 661
——, effect on response of pyriform cortical cells, to acetylcholine and L-glutamate, in cat, 93
——, effect on response to oxotremorine, in mouse, 64
——, +hexamethonium+tolazoline, effect on response of blood pressure to staphylococcal α-toxin, in adrenalectomized and vagotomized cat, 581

B

BW284C51. *See* 3-Oxopentamethylenebis(allyldimethylphenyl)ammonium
Bacteria, killed, effect on kaolin-induced oedema, 305
Bacterial contamination, of carrageenin and kaolin, effect on induction of oedema, in rat, 302
Behaviour, response to M320, in mouse, 312
Benzylpenicillin, acetoxymethyl ester. *See* Penamecillin
Bethanidine, effect on heart and spleen noradrenaline, in rat, 273, 277
——, response to, effect of noradrenaline on, 276
Bilirubin, conjugation with *o*-aminophenol of, in rat- and rabbit-liver, and biliary excretion of, from rat-liver, 36
Blood, 5-hydroxytryptamine in, in pregnant rat, 240
——, oxygen in, effect of nicotine on, 569
Blood flow, aural, response to staphylococcal α-toxin, and effect of histamine, compound 48/80, amyl nitrite and papaverine on, in adrenalectomized cat, 582
——, coronary, response to adrenaline and noradrenaline, and effect of β-adrenergic blockade on, in dog, 714
——, ——, response to bradykinin, kallidin and eledoisin, in dog, 20
——, ——, response to staphylococcal α-toxin, effect of vasodilator agents on, 587, 589
——, ——, ——, effect of 5-hydroxytryptamine and histamine on, in cat, 588, 589
——, ——, ——, in perfused cat and rabbit heart, 585
——, from chronically denervated cat spleen, effect of angiotensin and vasopressin on, 690
——, in forearm, response to nicotine, in man, 568
——, ——, ——, effect of hexamethonium on, 574
——, ——, ——, effect of nerve block on, 572
——, ——, ——, effect of propanolol and hyoscine on, 576
——, ——, ——, noradrenaline and hyoscine, effect of phenoxybenzamine on, and effect of hyoscine on response to acetylcholine, 570
——, in hand, response to nicotine, effect of hexamethonium on, 575
——, ——, ——, effect of phenoxybenzamine on, 571
——, response to isoprenaline, adrenaline and noradrenaline, and effect of propranolol on, 326
——, response to propranolol, and effect of atropine and syrosingopine on, 324
Blood pressure, effect of tetrafluorobenzene on, in dog, 487
——, response of, to acetylcholine and adrenaline, effect of scopinium bromide on, 594
——, ——, to adrenaline and noradrenaline, and effect of β-adrenergic blockade on, 719
——, ——, to amines and amino acids in cheese, modified by amine oxidase inhibition, 122
——, ——, to bradykinin, kallidin, and eledoisin, in dog, 18
——, ——, to dimethylphenylpiperazinium, tyramine and noradrenaline, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174
——, ——, to electrical stimulation of vagus nerve, effect of scopinium bromide on, 593
——, ——, to isoprenaline, adrenaline and noradrenaline, and effect of propranolol on, 326
——, ——, to M320, 316
——, ——, to morphine, and effect of ganglion-blocking and α-receptor-blocking agents and histamines on, in cat, 197
——, ——, to oxytocin, effect of continuous oxytocin infusion on, 627
——, ——, to oxytocin and oxytocin analogues, and effect of analogues on oxytocin-response, in chicken, 626
——, ——, to propranolol, and effect of atropine and syrosingopine on, 324

Blood Pressure, response of (*cont.*)
——, ——, to scopinium bromide, 595
——, ——, to staphylococcal α-toxin, and effect of antitoxin and atropine+hexamethonium+tolazoline on, in adrenalectomized and vagotomized cat, 581
——, ——, to tyramine, effect of α-methylmetatyramine and α-methylmetatyrosine on, 361
——, ——, ——, effect of α-methylnoradrenaline and metaraminol on, in reserpinized cat, 359
——, ——, ——, mephentermine and cocaine, effect of noradrenaline on, in reserpinized dog, 283, 284
——, ——, to yeast extract, effect of monoamine oxidase inhibition on, 142
Blood vessels, coronary, response to adrenaline and noradrenaline, and effect of β-adrenergic blockade on, 716, 719
Bradycardia, induction by M320, and effect of vagotomy on, 316
——, induced by pronethalol and propranolol, and effect of adrenaline and noradrenaline on, 717
Bradykinin, analogues, relative activities, 446
——, effects of, compared with histamine and 5-hydroxytryptamine, 446
——, ——, by coronary infusion, in dog, 18
——, ——, by intravenous infusion, 21
——, response of perfused superior cervical ganglion to, compared with intact ganglion, 453
——, response of superior cervical ganglion to, effect of nicotine on, 451
——, ——, effect of preganglionic electrical stimulation on, 452
——, ——, in dog and rabbit, 456
——, ——, and suprarenal medulla to, in anaesthetized and spinal cat, 444
——, ——, ——, effect of morphine on, 449
——, secondary response of nictitating membrane to, 455
Brain, electrical activity, effect of indolyl-ethyl-piperazine derivatives on, in cat, 190
Bretylium, effect on heart and spleen noradrenaline, in rat, 273, 277
——, effect on release of catechol amines from spleen, in cat, 165
——, effect on response of large intestine preparation, to nicotine, 82
——, response to, effect of noradrenaline on, 276
Bromolysergic acid diethylamide, effect on response of pyriform cortical cells, to 5-hydroxytryptamine, in cat, 98
Bromsulphalein, biliary excretion of, from rat-liver, 37
Butyrylcholine, effect of pronethalol and propranolol on response to, in guinea-pig atrium, 5

C

CPIB. *See* Chlorophenoxyisobutyric acid
Cadaverine, response of blood pressure to, effect of amine oxidase inhibition on, in pithed rat, 124
Calcium-ions, organ-bath concentration, effect on spontaneous response of nerve fibres to scorpion venom, 671
Caprylate, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
Carbachol, depolarization induced by, and effect of physostigmine on, in isolated rat superior cervical ganglion, 512
——, ——, effect of hexamethonium on, in kitten superior cervical ganglia, 522, 523, 526
——, ——, ——, and hyoscine on, 524. 526, 528
Carbachol, depolarization induced by (*cont.*)
——, ——, effect of hyoscine and atropine on, 525
——, effect on motor activity of *Schistosoma mansoni,* 658
——, effect on pyriform cortical cells, in cat, 91
——, induction of potential difference shift between ganglion and postganglionic nerve trunk, in kitten, 532
——, response of ganglionic resting potential to, 539, 548
——, ——, effect of hexamethonium and hyoscine, singly and combined, on, 541, 543
Carbenoxolone, biochemical effects of, 412
——, effect on blood pressure, 413
——, effect on water and electrolyte balance, weight, and blood pressure, 414
——, ——, ——, ——, during prednisolone treatment, 415
Carbohydrate metabolism, effect of frusemide on, in rat, 30
Cardiac oxygen consumption, response to bradykinin, kallidin and eledoisin, in dog, 18
Cardiovascular response, to M320, 316
——, to propranolol, and effect of atropine and syrosingopine on, 324
Carotid occlusion, effect of morphine on response to, and of dimethylphenylpiperazinium and nalorphine on, in cat, 198
Carrageenin, bacterial contamination of, effect on induction of oedema, in rat, 304
Catechol amines, effect on spontaneous activity of pyriform cortical cells, in cat, 98
——, release of, from spleen, effect of xylocholine, bretylium and guanethidine on, in cat, 162
——, ——, from suprarenal medulla, response to angiotensin and bradykinin, 446
——, ——, ——, ——, effect of morphine on, 450
Central adrenergic mechanism, in oestrous cycle, in mouse, 601
Central depressant action, of cinnamohydroxamic acid, compared with methylpentynol, in mouse, 42
——, of indolyl-ethyl-piperazine derivatives, in cat, 191
——, of M320, 312
——, of tetrodotoxin, in mouse, 437
Cephaloridine, urinary excretion of, and effect on kidney tubular secretion of, in cat, dog, rabbit, monkey and hen, 108
——, ——, ——, effect of probenecid on, in hen, 115
Cheese, response to, comparison between intravenous and intraduodenal injections, and effect of chlorpromazine, cocaine, methysergide and hyoscine on, in pithed rat, 122
——, ——, potentiation by α-methylbenzylhydrazine, in fowl, 129
——, ——, site of action, 131
Chlordiazepoxide, effect on activity, in mouse, 252
Chlorisondamine, effect on motor activity, and response to cholinomimetic agents, of *Schistosoma mansoni,* 659
***p*-Chloromercuribenzoate,** renal metabolism and effect on urinary excretion of, compared with mercuric cysteine, in rat, 50
Chlorophenoxyisobutyric acid, effect on release of free fatty acids, from isolated adipose tissue, 363
——, ——, ——, in bovine serum albumin solution, 364
——, ——, ——, in rat plasma solution, 366
[3-*N*-*p*-Chlorophenyl-(*N*-methylcarbamoyloxy)phenyl]-trimethylammonium, effect on blood pressure, compared with galantamine, 297
Chlorpheniramine, effect on response of blood pressure, to cheese, in cat, 134
——, ——, to yeast extract, in cat, 148
Chlorpromazine, effect on activity, in mouse, 252

Chlorpromazine (*cont.*)
——, effect on brain stem histamine and methylhistamine, in cat, 497
——, effect on response of blood pressure, and of nictitating membrane, to cheese, in cat, 134
——, ——, to tyramine, in rat, 122
——, ——, to yeast extract, in cat, 148
——, effect on striatal homovanillic acid and dopamine, in guinea-pig, coypu and *Meriones*, 390
——, ——, in rat, 388
Choline, effect on response of acetylcholine metabolism to quaternary ammonium compounds, 557
Choline ether, analogues, muscarinic action of, 68
Choline methyl ether, muscarinic action and preparation of, 68
Choline phenyl ether, effect on spontaneous activity of large and small intestine preparations, 81, 82
Cholinoceptive cells, in pyriform cortex, in cat, 89
Cholinolytic agents, effect on pyriform cortical cells, in cat, 92
Cholinomimetic agents, effect on mammalian muscarinic receptors, compared with *Schistosoma mansoni*, 662
——, effect on motor activity of *Schistosoma mansoni*, 657
——, effect on pyriform cortical cells, in cat, 91
Chondroitin sulphate, toxicity of, in frog larva, 423
Cinnamohydroxamic acid, toxicity, central depressant, analgesic, hypnotic and anticonvulsant activity of, and potentiation of analgesic and hypnotic activity of other agents by, in mouse, 42
Cocaine, effect on response of blood pressure, to cheese, in cat, 134
——, ——, to galantamine, 299
——, ——, to tyramine, in pithed rat, 122
——, ——, to yeast extract, in cat, 148
——, response of blood pressure to, effect of noradrenaline on, in reserpinized dog, 283
Codeine, analgesic action of, potentiation by cinnamohydroxamic acid of, in mouse, 45
Compound 48/80, effect on response of aural blood flow to staphylococcal α-toxin, in adrenalectomized cat, 582
Conditioned avoidance response, effect of indolyl-ethylpiperazine derivatives on, in rat, 188
Cortex, pyriform, chemical sensitivity of, in cat, 87
Corticotrophin, response of release of free fatty acids to, and effect of CPIB on, 367
N-(Cyclopropylmethyl)-19-isopentylnororvinol, analgesic action of, in mouse, 310
——, ——, antagonism by nalorphine, 317
——, central and respiratory depressant action, and gastrointestinal and behavioural effects of, 312–313
——, pharmacology of, 307
——, response of blood pressure to, and effect of adrenaline, noradrenaline, dimethylphenylpiperazinium, histamine and acetylcholine on, 316
——, response of respiration to, 317
——, ——, effect of nalorphine, levallorphan, bemegride and amiphenazole on, 318
——, toxicity of, 315

D

Dapsone, absorption, metabolism and urinary excretion of, in man, 212
Decamethonium, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
Depolarizing action, of acetylcholine and carbachol, and effect of physostigmine on, 512
——, ——, ——, and of dyflos on, 516
Desipramine, effect on activity, in mouse, 253
Dextran, toxicity of, in frog larva, 423
Dextran sulphate, toxicity of, in chick embryo, 423
——, ——, in frog larva, 422, 423
N-(ω-Dialkylaminoalkyl)lactams, muscarinic action and preparation of, 68
Di(*p*-aminophenyl)sulphoxide, absorption, metabolism and urinary excretion of, in man, 212
Di(*p*-aminophenyl)sulphone. *See* Dapsone
Dibenamine, effect on response of pyriform cortical cells, to noradrenaline, in cat, 100
Dichloroisoprenaline, effect on response of large intestine preparation, to adrenaline, noradrenaline, nicotine, choline phenyl ether and ββ-dimethylacryloylcholine, 81
——, effect on response of pyriform cortical cells, to noradrenaline, in cat, 100
2,4-Dichlorophenoxyacetate, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
bis-(Diethylaminoethyl)diethylaminoethylamine, effect on mammalian muscarinic receptors, 662
——, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
p-Di(2-hydrazinoethoxy)benzene, effect on placental and foetal 5-hydroxytryptamine content, and on pregnancy, in rat, 243
Dihydro-β-erythroidine, effect on response of pyriform cortical cells, to acetylcholine and L-glutamate, in cat, 93, 95
——, response of superior cervical ganglionic potentials to, 339
——, ——, effect of morphine on, 341
2,6-Dihydroxybenzoate, effect on bovine serum-albumin binding of sulphamethoxypiridazine, phenoxymethylpenicillin and phenol red, 705, 707
1-[2-(5,6-Dimethoxy-2-methylindol-3-yl)ethyl]-4-phenylpiperazine, psycho-sedative action of, in cat, rat and mouse, 187
ββ-**Dimethylacryloylcholine**, effect on spontaneous activity of large and small intestine preparations, 81, 82
4-Dimethylaminobut-2-ynyl acetate, muscarinic action and preparation of, 56
1-(4-Dimethylaminobut-2-ynyl)cyclopentan-2-one hydrochloride, muscarinic action and preparation of, 56
4-Dimethylaminobut-2-ynyl dimethylcarbamate hydrochloride, muscarinic action and preparation of, 56
N-(4-Dimethylaminobut-2-ynyl)-*N*-methylacetamide hydrogen oxalate, muscarinic action and preparation of, 56
1-(4-Dimethylaminobut-2-ynyl) pyrrolid-2-one, muscarinic action and preparation of, 56
N-(4-Dimethylaminobut-2-ynyl)-*NN'N'*-trimethyl-urea hydrogen oxalate, muscarinic action and preparation of, 56
7-Dimethylaminohept-5-yn-2-one hydrogen oxalate, muscarinic action and preparation of, 56
(4-Dimethylcarbamoyl-oxybut-2-ynyl) trimethyl-ammonium iodide, muscarinic action and preparation of, 56
(2-Dimethylcarbamoyloxy-5-phenylbenzyl) trimethylammonium, effect on blood pressure, compared with galantamine, 297
1,1-Dimethyl-4-phenylpiperazinium, effect on response of blood pressure to morphine, in cat, 197
——, response to, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174
——, ——, effect of scopinium bromide on, in dog, 594

Diphenhydramine, effect on response of guinea-pig small intestine to oriental wasp faecal extract, 232
1-(4-Dipropylaminobut-2-ynyl)pyrrolid-2-one, muscarinic action and preparation of, 56
Dipterex, effect on motor activity of *Schistosoma mansoni*, 658
Dipyridamole, effect on response of coronary blood-flow to bradykinin and kallidin, in dog, 21
Disulfiram, effect of, on restoration of response to tyramine by α-methylmetatyramine, 361
Diuretic action, of frusemide, in rat, 27
——, of M320, 315
Dopa, effect on blood pressure of, potentiation by α-methylbenzylhydrazine and inhibition by α-methyldopa, in pithed rat, 124
Dopamine, effect on pyriform cortical cells of, in cat, 96, 100
——, in striatum, effect of tranquillizing drugs on, in rodents, 388
——, release from spleen, effect of xylocholine, bretylium and guanethidine on, in cat, 166
Dopamine-β-oxidase, inhibition by disulfiram, effect on restoration of response to tyramine by α-methylmetatyramine and metaraminol, 361
Dryopteris felix-mas (male fern extract), effect on conjugation of bilirubin and *o*-aminophenol in rat- and rabbit-liver, and on biliary secretion from rat-liver of, 36
Dyflos, effect on depolarizing action of acetylcholine and carbachol, on isolated rat superior cervical ganglion, 516
——, effect on motor activity of *Schistosoma mansoni*, 658

E

Efficacy, intrinsic, of drug-receptor interaction, definition, 9
Electromyogram, effect of yeast extract on, in cat, 150
Eledoisin, effects of, by coronary infusion, in dog, 18
——, ——, by intravenous infusion, 21
——, response of superior cervical ganglion to, 455
Enzymes, plasma kinin-forming, effect on substrates, 407
——, ——, substrates for, 403
Ephedrine, effect on bovine serum-albumin binding of sulphamethoxypyridazine, 707
Ethonium ions, effect on neurally evoked contraction, 219
——, ——, in presence of tubocurarine, 220
——, effect on neuromuscular transmission, in frog, 218
——, ——, site of action, 225
——, effect on response to direct muscle stimulation, and on nerve axons, 223
1-(4-Ethoxybut-2-ynyl)-pyrrolidine, muscarinic action and preparation of, 56
Eyelid. *See* Ptosis

F

Faeces, oriental wasp, active constituents, 229, 232, 234
——, ——, aqueous extract, response of guinea-pig small intestine to, and effect of acetylcholine, histamine and 5-hydroxytryptamine on, 230, 231
Fatty acids, free, release from isolated rat adipose tissue, response to adrenaline, and effect of CPIB and nicotinic acid on, in bovine serum albumin solution, 364
——, ——, ——, ——, ——, in rat plasma solution, 366
——, non-esterified, in plasma, effect of nicotine on, in anaesthetized and adrenalectomized cat, 257, 258, 260
Fern, male. *See Dryopteris felix-mas*
Flicker fusion frequency, critical, response to amphetamine, 469
——, ——, ——, effect of urine *p*H on, 470
Foetus, rat, 5-hydroxytryptamine content, 239
Frusemide, diuretic action of and effect on carbohydrate metabolism and after liver by-pass of, comparison with hydrochlorothiazide and of oral and intraperitoneal administration, in rat, 27

G

Galantamine, effect on blood pressure, in rat, 296, 299
——, ——, compared with anticholinesterases, 297
Ganglion, nodose, physostigmine-perfused, response of acetylcholine metabolism to quaternary ammonium compounds, 560
——, superior cervical, electrical response to stimulants, and effect of hexamethonium and hyoscine on, 538
——, ——, denervated, depolarization by stimulants, 511
——, ——, denervated and normal, depolarizing action of acetylcholine and carbachol, and effect of physostigmine, 512, 518
——, ——, physostigmine-perfused, response of acetylcholine metabolism to stimulation, and effect of hemicholinium on, 554
Ganglion-blocking action, of scopinium bromide, 593, 598
Ganglion-blocking agents, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
——, effect on response of blood pressure, to galantamine, 297
——, ——, to morphine, in cat, 199
Ganglion-stimulant action, in large and small intestine, of nicotine, 85
——, of scopinium bromide, 594, 598
Ganglionic transmission, superior cervical, effect of hexamethonium and morphine on, in rabbit, 334
Gangliosides, in rat and pigeon brain, and adsorption of tetanus toxin, 743
Gastrointestinal tract, response to M320, 312, 314
Glomerular filtration rate, response to cephaloridine, in cat, dog, rabbit and monkey, 109
Glucose, in blood, effect of nicotine on, in anaesthetized and adrenalectomized cat, 257, 258, 260
——, reabsorptive capacity, effect of cephaloridine on, in cat, 111
L-Glutamate, effect on pyriform cortical cells of, in cat, 89
Glycyl- and glycyl-glycyl-oxytocin. *See* Oxytocin analogues
Guanethidine, effect on heart and spleen noradrenaline, in rat, 273, 277
——, effect on release of catechol amines from spleen, in cat, 165
——, effect on response of large intestine preparation to nicotine, 82
——, ptosis induced by, and response of mouse heart noradrenaline to, effect of (+)-*N*-(1-phenylethyl)-guanidine on, in mouse, 267
——, response to, effect of noradrenaline on, 276
——, ——, effect of (+)-*N*-(1-phenylethyl)guanidine on, 266

H

Heart beat, response of, to adrenaline and isoprenaline, and effect of propranolol on, 476
——, ——, to bradykinin, kallidin, and eledoisin, in dog, 18

Heart beat, response of (*cont.*)
——, ——, to cervical stimulation, dimethylphenylpiperazinium, tyramine and noradrenaline, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174
——, ——, to hypothermia and anoxia and effect of perfusion rate on, in noradrenaline-perfused cat heart, 430
——, ——, to isoprenaline, adrenaline and noradrenaline, and effect of propranolol on, 326
——, ——, to propranolol, effect of atropine and syrosingopine on, 324
——, ——, to propranolol, in anaesthetized dog, 323
——, ——, to staphylococcal α-toxin, and effect of antitoxin, papaverine and methysergide+mepyramine on, in perfused cat and rabbit heart, 586
——, ——, ——, and effect of papaverine, adrenaline and aminophylline on, in perfused rabbit heart, 584, 586
——, ——, ——, and effect of papaverine, sodium nitrite and aminophylline on, in perfused cat heart, 585, 586
——, ——, to tetrafluorobenzene, in dog, 487
——, sensitization to adrenaline, by tetrafluorobenzene, 489
Hemicholinium, response of acetylcholine metabolism to, effect of choline on, 557
——, ——, in physostigmine-perfused cat nodose ganglion, 560
——, ——, in physostigmine-perfused cat superior cervical ganglion, 554
Heparin, and synthetic anticoagulants, effect on amphibian and avian development of, 421
——, toxicity of, in frog larva, 423
Hexadimethrine, anti-inflammatory activity, mechanism of, 351, 354
——, effect on blood bradykininogen, 353
——, inhibition of kinin formation by, in guinea-pig serum, 353
Hexamethonium, effect on drug-induced depolarization of superior cervical ganglia, in kitten, 522, 523
——, ——, in rat, 530, 531
——, effect on ganglionic electrical response to carbachol, tetramethylammonium and nicotine, 543
——, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, effect on response of blood flow, to nicotine, in forearm, 574
——, ——, ——, in hand, 575
——, effect on response of blood pressure, to galantamine, 297
——, ——, to morphine, in cat, 200
——, ——, to scopinium bromide, 595
——, effect on response of dog bladder, to scopinium bromide, 594
——, effect on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, effect on response of large and small intestine preparations, to nicotine, choline phenyl ether, and ββ-dimethylacryloylcholine, 81, 83
——, effect on response to yeast extract, in cat, 148
——, response of acetylcholine metabolism, in physostigmine-perfused cat nodose ganglion, 560
——, ——, in physostigmine-perfused cat superior cervical ganglion, 555
——, response of superior cervical ganglionic potentials to, 338
——, ——, effect of morphine on, 341
——, and hexamethonium+hyoscine, effect on ganglionic electrical response to carbachol, 541
Hexamethonium (*cont.*)
——, +atropine+tolazoline, effect on response of blood pressure to staphylococcal α-toxin, in adrenalectomized and vagotomized cat, 581
Hexobarbitone, effect on activity, in mouse, 252
——, hypnotic action of, potentiation by cinnamohydroxamic acid of, in mouse, 45
Histamine, as constituent of oriental wasp faecal extract, 232
——, effect on response of blood flow, aural, to staphylococcal α-toxin, in adrenalectomized cat, 582
——, ——, coronary, to staphylococcal α-toxin, in cat, 588, 589
——, ——, ——, ——, in isolated rabbit heart, 587
——, in brain and tissues, in cat, 494, 496
——, ——, effects of iproniazid, reserpine and chlorpromazine on, 497
——, ——, metabolism of, 499
——, in plasma, effect of staphylococcal α-toxin on, in cat, 588
——, intestinal absorption, in cat, 152
——, response of blood pressure to, effect of amine oxidase inhibition on, in pithed rat, 124
——, response to, effect of α-methylbenzylhydrazine on, 144
——, ——, effect of oriental wasp faecal extract on, 231, 234
——, ——, effect of phenoxybenzamine and propranolol on, 143
Histaminic effect, of yeast extracts, in cat, 148
Homovanillic acid, in striatum, effect of tranquillizing drugs on, in rodents, 385, 388
Hydergine, effect on response of blood pressure, to cheese, in cat, 134
——, ——, to yeast extract, in cat, 148
——, effect on response of nictitating membrane, to cheese, in cat, 130
Hydrochlorothiazide, diuretic action of, compared with frusemide, in rat, 27
——, ——, ——, ——, after liver by-pass, 31
Hydrocortisone, effect on capillary permeability, 380
——, effect on formalin-induced oedema, in rat, 378
——, effect on skin wound tensile strength and cotton-pellet tissue deposition, 380
——, effect on wound-healing rate, 382
β-Hydroxylation, action in restoration of response to tyramine by α-methylmetatyramine, 361
3-Hydroxy-*N*-methylpyridinium, urinary excretion, after pyridostigmine injection, 395
β-Hydroxyphenethylamine, effect on response of blood pressure, to tyramine, in cat, 136
5-Hydroxytryptamine, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, effect on response of blood flow, coronary, to staphylococcal α-toxin, in cat, 588, 589
——, effect on response of isolated nerve fibres to scorpion venom, after electrical stimulation, 669
——, effect on spontaneous activity of pyriform cortical cells, and on response to L-glutamate of, in cat, 95
——, in blood, uterus and spleen, in pregnant rat, 240
——, in mouse brain, effect of α-methylmetatyrosine on, 602
——, in placenta, foetus and tissues, in pregnant rat, 237
——, ——, ——, effect of ovariectomy on, in pregnant rat, 242
——, response to, effect of lysergide, bromolysergic acid diethylamide and methysergide on, in pyriform cortical cells, in cat, 98

5-Hydroxytryptamine, response to (*cont.*)
——, ——, effect of oriental wasp faecal extract on, 231, 234
5-Hydroxytryptophane, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
Hyoscine, effect on drug-induced depolarization of superior cervical ganglia, in kitten, 524, 525
——, ——, in rat, 530, 531
——, effect on ganglionic electrical response to carbachol, tetramethylammonium and nicotine, 543
——, effect on response of blood flow, to nicotine, in forearm, 576
——, effect on response of blood pressure, to cheese, in cat, 134
——, ——, to tyramine, in pithed rat, 122
——, ——, to yeast extract, in cat, 148
——, response of blood flow to, effect of phenoxybenzamine on, in forearm, 570
——, and hyoscine+hexamethonium, effect on ganglionic electrical response to carbachol, 541
Hyperglycaemic action, of hexadimethrine, in adrenalectomized rat, 354
——, ——, in mecamylamine-treated rat, 355
Hypnotic action, of cinnamohydroxamic acid, in mouse, 43
——, of hexobarbitone, potentiation by cinnamohydroxamic acid of, in mouse, 45
Hypothermia, response of noradrenaline retention to, and effect of perfusion rate on, in cat perfused heart, 428
Hypothermic activity, of indolyl-ethyl-piperazine derivatives, in mouse, 189

I

Imferon. *See* Iron dextran
Imipramine, effect on activity, in mouse, 253
——, response of oestrous cycle to, in mouse, 602
Indocyanine green, biliary excretion of, from rat-liver, 38
Indolyl - ethyl - piperazine derivatives, psycho - sedative action of, in mouse, rat and cat, 186
Insulin, response to, effect of frusemide on, in rat, 30
Intestine, large, preparation of, response to nicotine, choline phenyl ether and $\beta\beta$-dimethylacryloylcholine, 81
——, small, guinea-pig, response to *Schistosoma mansoni* extract, 660
p-Iodobenzoate, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
Iproniazid, effect on activity, in mouse, 253
——, effect on brain stem histamine and methylhistamine, in cat, 497
——, effect on placental and foetal 5-hydroxytryptamine, and on pregnancy, in rat, 242
——, sympathomimetic effect on response to cheese, in cat, 131
Iron, in blood of pregnant rhesus monkey, effect of iron dextran on, 640
——, in liver, effect of iron dextran on, 642
——, in maternal and foetal tissues, effect of iron dextran on, 638, 639
——, in serum, effect of iron dextran on, 637
Iron dextran, distribution in maternal and foetal tissues, in rhesus monkey, 633
——, in foetuses, 635
——, in serum, 636
——, urinary excretion of, 637
Isocarboxazid, sympathomimetic effect on response to cheese, in cat, 131, 134
Isoprenaline, cardiovascular response to, and effect of propranolol on, 326
——, effect on response of coronary blood flow, to staphylococcal α-toxin, in perfused rabbit heart, 587
——, response to, effect of propranolol on, 143

K

Kallidin, effects of, by coronary infusion, in dog, 18
——, ——, by intravenous infusion, 21
Kallikrein, glandular, effect on kinin-formation, in man, dog and rabbit, effect of storage on, 410
——, plasma, effect on kinin-formation, and effect of storage on, 409
——, ——, in pseudoglobulin preparation, 405, 408
Kaolin, bacterial contamination of, effect on induction of oedema, in rat, 304
Kidney, tubular secretions, excretion of cephaloridine in, in cat, dog, rabbit, monkey and hen, 109, 111
——, ——, excretion of pyridostigmine in, in hen, 396
Kinin activity, of substrates, in presence of plasma- or glandular-kallikrein, 410
——, ——, in presence of pseudoglobulin or saliva, 408
Kinin-forming enzymes, substrates for, in man, dog and rabbit plasma, 403, 406
Kinins, effects of, on coronary blood flow and myocardial metabolism, comparison of coronary and intravenous infusion, in dog, 17
——, serum formation of, inhibition by hexadimethrine, 353

L

Lachrimation, induction by indolyl-ethyl-piperazine derivatives, 193
Lactation. *See* Mammary gland
Laminarin sulphate, toxicity of, in frog larva, 423
Lasix. *See* Frusemide
Leptazol, response to, effect of cinnamohydroxamic acid on, in mouse, 47
Leucyl-, leucyl-leucyl- *and* leucyl-glycyl-glycyl-oxytocin. *See* Oxytocin analogues
Liver, by-pass, action of frusemide after, compared with hydrochlorothiazide, in rat, 31
——, ——, method, in rat, 28
Liver function, effect of carbenoxolone on, 416
Liver necrosis, from paracetamol, 606, 613
Lung, resistance to inflation, method of preparation, in guinea-pig, 142
——, ——, response to histamine and yeast extract and effect of amine oxidase inhibition on, in guinea-pig, 156
Lysergide, effect on response of pyriform cortical cells, to 5-hydroxytryptamine, in cat, 98

M

M320. *See* *N*-(Cyclopropylmethyl)-19-isopentylnororvinol
Mammary gland, response to oxytocin and oxytocin analogues, and effect of analogues on oxytocin-response, in guinea-pig, 620, 621
——, isolated, response to oxytocin and oxytocin analogues, and effect of analogues and continuous oxytocin infusion on oxytocin-response, 625
Mecamylamine, effect on mammalian muscarinic receptors, 662
——, effect on motor activity and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
Me Cys^1-oxytocin. *See* Oxytocin analogues
Mephentermine, response of blood pressure to, effect of noradrenaline on, in reserpinized dog, 284

Meprobamate, effect on activity, in mouse, 252
Mepyramine, effect on response of blood pressure, to morphine, in cat, 199
——, effect on response to histamine, in isolated superfused guinea-pig small intestine, 154
——, +methysergide, effect on response of heart beat, to staphylococcal α-toxin, in perfused cat and rabbit heart, 586
Mercurial diuretics, mechanism of action of, in rat, 50
Mercuric cysteine, metabolism of, compared with *p*-chloromercuribenzoate, in rat, 52
Metaraminol, effect on response to tyramine, in reserpinized cat, 359
(−)-Metaraminol, response of blood pressure, heart beat and nictitating membrane to, compared with (−)-α-methylnoradrenaline and (−)-noradrenaline, and effect of reserpine on, in spinal cat, 179
Methacholine, depolarization induced by, effect of hexamethonium on, in kitten superior cervical ganglia, 522, 527
——, ——, effect of hyoscine and atropine on, 525
——, effect on mammalian muscarinic receptors, 662
——, effect on motor activity of *Schistosoma mansoni*, 658
——, induction of potential difference shift between ganglion and postganglionic nerve trunk, in kitten, 534
Methixene, therapeutic action in Parkinsonian tremor, 345, 349
7-[2-(4-*o*-Methoxy-phenylpiperazine-1-yl)ethyl]-5*H*-1,3-dioxolo[4,5-*f*]indole tartrate, psycho-sedative action of, in cat, rat and mouse, 186
Methylamphetamine, effect on activity, in mouse, 250
α-Methylbenzylhydrazine, effect on response of blood pressure, to cheese, in cat, 137
——, ——, to phenethylamine, and to tryptamine, in pithed rat, 124
——, ——, to tyramine, in pithed rat, 122, 126
——, ——, to yeast extract and histamine, 144, 148
α-Methyldopa, effect of, on response to cervical stimulation, dimethylpiperazinium, tyramine and noradrenaline, in spinal cat, 174
——, response of oestrous cycle to, in mouse, 602
Methylhistamine, in brain and tissues, in cat, 494, 496
——, ——, effects of iproniazid, reserpine and chlorpromazine on, 497
——, ——, metabolism of, 499
1-[2-(2-Methylindol-3-yl)ethyl]-4-phenylpiperazine, psycho-sedative action of, in cat, rat and mouse, 187
α-Methylmetatyramine, effect on response to tyramine, in reserpinized cat, 360
α-Methylmetatyrosine, effect of, on response to cervical stimulation, dimethylpiperazinium, tyramine and noradrenaline, in spinal cat, 174
——, ——, on response to tyramine, in reserpinized cat, 360
——, response of oestrous cycle to, and effect of monoamine oxidase inhibition on, in mouse, 602
α-Methylnoradrenaline, effect on response to tyramine, in reserpinized cat, 359
(−)-α-Methylnoradrenaline, response of blood pressure, heart beat and nictitating membrane to, compared with (−)-noradrenaline and (−)-metaraminol, and effect of reserpine on, in spinal cat, 179
Methylpentynol, central depressant effect of, compared with cinnamohydroxamic acid, in mouse, 42
N-Methyl-*N*-(4-pyrrolidin-1′-ylbut-2-ynyl) acetamide, muscarinic action and preparation of, 56
Methysergide, effect on response of blood pressure, to cheese, in cat, 134
Methysergide, effect on response of blood pressure (*cont.*)
——, ——, to tyramine, in pithed rat, 122
——, effect on response of pyriform cortical cells, to 5-hydroxytryptamine, in cat, 98
——, +mepyramine, effect on response of heart beat, to staphylococcal α-toxin, in perfused cat and rabbit heart, 586
Milk-ejecting activity. *See* Mammary gland
Mitochondria, oxidative phosphorylation of, effect of tetanus toxin on, in rat and pigeon, 732, 735
Monoamine oxidase inhibitors, effect of, on response to cheese, in rat, fowl and cat, 120
——, ——, on response to yeast extract, in rat, cat and guinea-pig, 142
——, response to, effect of route of administration, in rat, 127
Morphine, analgesic action of, potentiation by cinnamohydroxamic acid, and antagonism by nalorphine of, in mouse, 47
——, effect on response of ganglionic potentials, to hexamethonium, and antagonism by nalorphine, 340
——, effect on response of superior cervical ganglion and suprarenal medulla, to peptides, 449
——, response of blood pressure to, and effect of ganglion-blocking and sympathetic α-receptor-blocking agents on, in cat, 197
Muscarine, depolarization induced by, effect of hexamethonium on, in kitten superior cervical ganglia, 522, 527
——, ——, ——, and hyoscine on, 528
——, ——, effect of hyoscine and atropine on, 525
——, effect of, on mammalian muscarinic receptors, 662
——, ——, on motor activity of *Schistosoma mansoni*, 658
——, ——, on pyriform cortical cells, in cat, 92
——, response of ganglionic potential to, and effect of hexamethonium and hyoscine on, 544, 548
Muscarinic action, of acetylenic amine analogues of oxotremorine, 62, 68
Muscle, extraocular, response to succinylcholine, and effect of atropine, tubocurarine, hexamethonium, phenoxybenzamine and pronethalol on, in anaesthetized cat, 206
Mydriasis, induced by scopinium bromide, 596

N

Nalorphine, antagonism to effect of morphine, on response of ganglionic potentials to hexamethonium, 341
——, effect of, on response to morphine and morphine plus cinnamohydroxamic acid, in mouse, 47
——, ——, on response of blood pressure, to morphine, in cat, 198
Neostigmine, effect of, on blood pressure, compared with galantamine, 297
——, ——, on motor activity of *Schistosoma mansoni*, 658
——, ——, on rat serum hydrolysis of penamecillin, 652
——, ——, on response of isolated guinea-pig ileum to acetylcholine and *Schistosoma mansoni* extract, 661
Nerve, cervical sympathetic postganglionic, response to stimulation, effect of bretylium, tyramine and cheese on, 132
——, postganglionic, response to stimulation, effect of angiotensin and vasopressin on, in perfused cat spleen, 686, 690
——, sympathetic, response to stimulation, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 172

Nerve fibres, frog, isolated, response to electrical stimulation, effect of scorpion venom on, 667
Nervous system, autonomic, response to electrical stimulation, effect of scopinium bromide on, in cat, 593, 598
——, central, response to scopinium bromide, 596, 599
——, peripheral, response to scopinium bromide, 596, 599
Neuromuscular blocking agents, effect on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
Neuromuscular junction, comparison between mammalian and amphibian, as site of action of ethonium ions, 226
Neuromuscular transmission, effect of ethonium ions on, in frog, 218
Neurone-blocking action, adrenergic, induction by guanethidine, bretylium, bethanidine and syrosingopine, effect of dexamphetamine on, 275
——, ——, ——, ——, ——, effect of tissue noradrenaline on, 278
——, ——, of xylocholine, bretylium and guanethidine, in cat, 168
——, of (−)-*N*-(1-phenylethyl)guanidine, effect of (+)-isomer on, 265
Neurone stimulant action, in pyriform cortex, in cat, 87
Neurophysin, chromatographic separation from peptides, 507
Nialamide, effect on response of blood pressure, to tyramine, 126
——, ——, to yeast extract, in cat, 149
——, sympathomimetic effect on response to cheese, in cat, 131
Nicotine, depolarization induced by, effect of hexamethonium on, in kitten superior cervical ganglia, 522, 527
——, ——, effect of hyoscine and atropine on, 525
——, effect of, on blood flow, 568
——, ——, ——, forearm, action of anaesthetic nerve block on, 572
——, ——, ——, ——, action of hexamethonium on, 574
——, ——, ——, ——, action of phenoxybenzamine on, 570
——, ——, ——, hand, action of phenoxybenzamine on, 571
——, ——, on blood glucose and plasma non-esterified fatty acid levels, in cat, 256
——, ——, on blood oxygen, 569
——, ——, on blood-vessels, in hand and forearm, in man, 567
——, ——, on motor activity of *Schistosoma mansoni,* 658
——, ——, on pyriform cortical cells, in cat, 92
——, ——, on response of blood pressure, to galantamine, 297
——, ——, on response of superior cervical ganglion, to peptides, in anaesthetized and spinal cat, 451
——, ——, on spontaneous activity of large and small intestine preparations, 81, 82
——, response of ganglionic potential to, and effect of hexamethonium and hyoscine on, 543, 548
Nicotinic acid, effect on adrenaline-induced release of free fatty acids, 364, 368
Nictitating membrane, denervated, response to nicotine, in adrenalectomized cat, 259, 261
——, ——, ——, in anaesthetized cat, 258, 261
——, response of, to angiotensin and bradykinin, compared with histamine and 5-hydroxytryptamine, 447
Nictitating membrane (*cont.*)
——, response of, to cervical stimulation, dimethylphenylpiperazinium, tyramine and noradrenaline, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174
——, ——, to cheese, and effect of amine oxidase inhibition and Hydergine on, 130
——, ——, ——, effect of phenoxybenzamine and chlorpromazine on, 134
——, ——, to dimethylphenylpiperazinium and adrenaline, effect of scopinium bromide on, in cat, 594
——, ——, to electrical stimulation, effect of scopinium bromide on, in dog, 593
——, ——, to oxytocin, 454
——, ——, to *N*-(1-phenylethyl)guanidine, in cat, 265
——, ——, to preganglionic electrical stimulation, in anaesthetized cat, 452
——, ——, to tyramine, effect of α-methylmetatyramine and α-methylmetatyrosine on, 361
——, ——, ——, effect of α-methylnoradrenaline and metaraminol on, in reserpinized cat, 359
——, ——, to vasopressin, 455
——, ——, to yeast extract, effect of monoamine oxidase inhibition on, 145
——, secondary response to bradykinin, 455
Nitrite, effect on response of heart beat and coronary blood flow, to staphylococcal α-toxin, in perfused cat and rabbit heart, 585, 586, 587
Noradrenaline, cardiovascular response to, and effect of propranolol, 326
——,effect of, on forearm blood flow, action of phenoxybenzamine on, 570
——, ——, on pyriform cortical cells, in cat, 96, 98
——, ——, on response of blood pressure, to morphine, in cat, 198
——, ——, ——, to tyramine, in cat, 136
——, ——, ——, ——, mephentermine and cocaine, in reserpinized dog, 282
——, ——, on response to physostigmine+guanethidine, bretylium, bethanidine or syrosingopine, 276
——, ——, on spontaneous activity of large and small intestine preparations, 81, 83
——, in mouse heart, response to guanethidine or reserpine, effect of (+)-*N*-(1-phenylethyl)guanidine on, 267
——, in tissues, effect of guanethidine, bretylium, bethanidine and syrosingopine on, and response of adrenergic transmission to, in rat, 271
——, ——, effect of noradrenaline infusion on, 277
——, release from isolated cat spleen, effect of angiotensin, vasopressin and tyramine on, 688, 690
——, release from mouse brain, compared with 5-hydroxytryptamine, effect of α-methylmetatyrosine on, 602
——, release from spleen, effect of xylocholine, bretylium and guanethidine on, in cat, 164
——, response of blood pressure, heart beat and nictitating membrane to, compared with (−)-α-methylnoradrenaline and (−)-metaraminol, and effect of reserpine on, in spinal cat, 179
——, response of coronary blood flow to, and effect of β-adrenergic blockade on, in dog, 714
——, response of heart beat to, effect of hypothermia, anoxia and perfusion rate on, 430
——, response to, effect of pronethalol and propranolol on, in guinea-pig atrium, 4
——, ——, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174

Noradrenaline (*cont.*)
——, retention in cat perfused heart, response to hypothermia and anoxia, and effect of perfusion rate on, 428
(−)-Noradrenaline. *See* Noradrenaline
Novobiocin, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707

O

Oak gall, chloroform-methanol and aqueous extracts, toxicity and antihistamine activity of, 699
——, ethanol extracts, toxicity and antihistamine activity of, 700
——, extracts, antihistamine activity, 697
Oedema, carrageenin- and kaolin-induced, effect of bacterial contamination on, in rat, 303
——, formalin-induced, response to polyester-sponge exudate and hydrocortisone, 377
——, yeast-induced, antagonism by hexadimethrine, 354
——, ——, ——, adrenaline and cyproheptadine, effect of propranolol on, 355
Oestradiol, effect on response of rat and guinea-pig uterus to prostaglandins E_1 and $F_{2\alpha}$, 680
Oestrogen, effect on response of rat and guinea-pig uterus to prostaglandins E_1 and $F_{2\alpha}$, 682
Ouabain, response to, effect of pronethalol and propranolol on, in guinea-pig, 6
Ovariectomy, effect on placental and foetal 5-hydroxytryptamine content, in pregnant rat, 242
Oxidative phosphorylation. *See* Phosphorylation, oxidative
3-Oxopentamethylenebis(allyldimethylphenyl)ammonium, effect on blood pressure, compared with galantamine, 297
Oxotremorine, acetylenic amine analogues, central stimulant and muscarinic action, and toxicity of, 56
——, ——, muscarinic action of, 68
Oxytocin, dissociation from protein carrier, by chromatography on Sephadex G-25, 502
——, effect on response of rat and guinea-pig uterus, to electrical stimulation, compared with prostaglandins, 679
——, ganglionic stimulation by, response of nictitating membrane to, 454
——, response to, effect of continuous oxytocin infusion on, 625, 627
Oxytocin analogues, antidiuretic activity, in rat, 619
——, as hormonogens, 615
——, effect on blood pressure, in chicken, 625
——, effect on isolated mammary gland, 625
——, effect on mammary gland, in guinea-pig, 620, 621
——, uterine oxytocin activity, in rat, 618

P

PAM. *See* 2-Pyridine aldoxime methochloride
Papaverine, effect on response of blood flow, aural, to staphylococcal α-toxin, in adrenalectomized cat, 582
——, ——, coronary, to staphylococcal α-toxin, in isolated cat and rabbit heart, 587, 589
——, effect on response of heart beat, to staphylococcal α-toxin, 584, 585, 586
Paracetamol, induction of liver necrosis by, 606
——, toxicity of, compared with phenacetin, 612
——, ——, in rat, 607
Pargyline, sympathomimetic effect on response to cheese, in cat, 131, 134
Pempidine, effect on mammalian muscarinic receptors, 662
Pempidine (*cont.*)
——, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, ptosis induced by, effect of (+)-*N*-(1-phenylethyl)-guanidine on, in mouse, 267
——, response to, effect of (+)- and (−)-*N*-(1-phenylethyl) guanidine on, 266
Penamecillin (*acetoxymethyl ester of benzylpenicillin, Wy* 20788), absorption and excretion, in mammals, 649
——, hydrolysis by rat, rabbit and dog serum, 651
——, in dog blood, compared with benzylpenicillin, 650
——, serum concentration, compared with benzyl- and phenoxymethyl-penicillin, in dog, 652
——, toxicity, in dog, 654
——, ——, in mouse and rat, 653
Pentobarbitone, anaesthesia induced by, effect on response of blood pressure to morphine, in cat, 200
Pentolinium, effect of, on motor response of *Schistosoma mansoni* and response to cholinomimetic agents, 659
——, ——, on response of blood pressure to galantamine, 297
——, response of superior cervical ganglionic potentials to, 338
——, ——, effect of morphine on, 341
Peptides, dissociation from protein carrier, by chromatography on Sephadex G-25, 504
Pethidine, analgesic action of, potentiation by cinnamohydroxamic acid of, in mouse, 45
Phenelzine, effect on response of blood pressure, to tyramine, 126
——, sympathomimetic effect on response to cheese, in cat, 131
Phenethylamine, effect on blood pressure of, and potentiation by α-methylbenzylhydrazine, in pithed rat, 123
——, sympathomimetic effects, in cat, 137
Pheniprazine, effect on response of oestrous cycle to α-methylmetatyrosine, in mouse, 602
——, sympathomimetic effect on response to cheese, in cat, 131
Phenol red, displacement from binding to bovine serum-albumin, by anionic drugs, 707
Phenoxybenzamine, effect of, on response of blood flow, forearm, to nicotine, noradrenaline and hyoscine, in man, 570
——, ——, ——, hand, to nicotine, 571
——, ——, on response of blood pressure, to cheese, in cat, 134
——, ——, ——, to galantamine, 298
——, ——, ——, to morphine, in cat, 199
——, ——, ——, to yeast extract and histamine, 143, 144, 148
——, ——, on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, ——, on response of nictitating membrane, to cheese, in cat, 134
——, ——, on response of pyriform cortical cells, to noradrenaline, in cat, 100
Phenoxymethylpenicillin, displacement from binding to bovine serum-albumin, by anionic drugs, 707
Phenoxypropazine, sympathomimetic effect on response to cheese, in cat, 131
Phentolamine, effect of, on response of blood pressure, to galantamine, 298
——, ——, on response of pyriform cortical cells, to noradrenaline, in cat, 100
Phenylalanine, effect on blood pressure of, in pithed rat, 124
Phenylalanyl-oxytocin. *See* Oxytocin analogues

Phenylbutazone, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
N-(1-Phenylethyl)guanidine, antagonism between optical isomers of, 264
(+)-*N*-(1-Phenylethyl)guanidine, effect on response of nictitating membrane, to (−)-isomer, in cat, 265
——, ——, to xylocholine, guanethidine and pempidine, 266
(−)-*N*-(1-Phenylethyl)guanidine, ptosis induced by, effect of (+)-isomer on, in mouse, 267
Phenylquinone, response to, effect of cinnamohydroxamic acid on, in mouse, 44
Phosphorylation, oxidative, uncoupling in brain mitochondria, 732, 735
Physostigmine, cat nodose ganglion perfused by, response to quaternary ammonium compounds, 560
——, cat superior cervical ganglion perfused by, response to stimulation and hemicholinium, 554
——, ——, response to quaternary ammonium compounds, 555
——, effect of, on blood pressure, compared with galantamine, 297
——, ——, on depolarizing action of acetylcholine and carbachol, in isolated rat superior cervical ganglion, 512, 516
——, ——, on motor activity of *Schistosoma mansoni*, 658
——, ——, on response of large and small intestine preparations, to acetylcholine and nicotine, 82, 83
Pilocarpine, effect of, on mammalian muscarinic receptors, 662
——, ——, on motor activity of *Schistosoma mansoni*, 658
Pivhydrazine, sympathomimetic effect on response to cheese, in cat, 131
Placenta, rat, 5-hydroxytryptamine content, 239
Polyester-sponge exudate, effect of, on capillary permeability, 381
——, ——, on formalin-induced oedema, compared with hydrocortisone, in rat, 377
——, ——, on skin wound tensile strength and cotton-pellet tissue deposition, 380
——, ——, on wound-healing rate, 382
Potassium, urinary excretion of, effect of *p*-chloromercuribenzoate on, in rat, 51
——, ——, effect of frusemide on, 28
Potassium chloride, response of ganglionic potential to, and effect of hexamethonium and hyoscine on, 545, 548
Potassium ions, in serum, effect of carbenoxolone on, 414
Potential difference shift, induction by carbachol, in kitten ganglia, 532
——, ——, effect of atropine and hexamethonium on, 533
——, induction by methacholine, 534
Potentials, action, ganglionic, effect of hexamethonium and hyoscine on, in cat, 546
——, ——, ——, response to electrical stimulation, 336
——, ——, ——, ——, effect of hexamethonium on, 338
——, ——, ——, ——, effect of morphine on, 339
——, ——, of nerve fibres, effect of scorpion venom on, 667, 669
——, membrane, of nerve fibres, effect of scorpion venom on, 673
——, resting, ganglionic, response to carbachol, in cat, 539
——, ——, ——, ——, effect of hexamethonium and hyoscine, singly and combined, on, 541
Potentials, resting (*cont.*)
——, ——, of nerve fibres, effect of scorpion venom on, 668, 669
Presynaptic effects, of quaternary ammonium compounds, on perfused cat ganglia, 552
Probenecid, effect of, on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
——, ——, on urinary secretion of cephaloridine, in hen, 115
Procaine, effect on response of large and small intestine preparations, to nicotine, 82, 83
Progesterone, effect of, on foetus in ovariectomized rat, and on placental and foetal 5-hydroxytryptamine content, 242
——, ——, on response of rat and guinea-pig uterus to prostaglandins E_1 and $F_{2\alpha}$, 681
Prolyl-oxytocin. *See* Oxytocin analogues
Pronethalol, antifibrillatory effect on response to electrical stimulus, compared with propranolol and quinidine, in guinea-pig atrium, 6
——, antisympathomimetic effect on response to butyrylcholine, tyramine and noradrenaline, compared with propranolol, in guinea-pig atrium, 5
——, effect of, on response of coronary blood flow, to adrenaline and noradrenaline, in dog, 714
——, ——, on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, ——, on response of large and small intestine preparations, to nicotine, choline phenyl ether and $\beta\beta$-dimethylacryloylcholine, 81, 83
——, protective action against ouabain intoxication, compared with propranolol, in guinea-pig, 6
Propranolol, antifibrillatory effect on response to electrical stimulus, compared with pronethalol and quinidine, in guinea-pig atrium, 6
——, antisympathomimetic effect on response to butyrylcholine, tyramine and noradrenaline, compared with pronethalol, in guinea-pig atrium, 5
——, effect of, on anti-oedematous activity of adrenaline, hexadimethrine and cyproheptadine, 355
——, ——, on cardiovascular response to isoprenaline, adrenaline and noradrenaline, in anaesthetized dog, 322
——, ——, on response of blood flow, coronary, to adrenaline and noradrenaline, in dog, 714
——, ——, ——, ——, to bradykinin and kallidin, in dog, 21
——, ——, ——, forearm, to nicotine, 576
——, ——, on response of blood pressure, to yeast extract, histamine and isoprenaline, 143
——, effects on atrioventricular node and its response to adrenaline and isoprenaline, in dog, 473
——, protective action against ouabain intoxication, compared with pronethalol, in guinea-pig, 6
Prostaglandin E_1, response of mammalian uterus to, effect of oestrogens and progesterone on, 678
Prostaglandin $F_{2\alpha}$, response of mammalian uterus to, effect of oestrogens and progesterone on, 678
Pseudoglobulin preparation, substrates in and plasma kinin-forming activity of, and effect of soya bean trypsin inhibitor and Trasylol on, 405
——, ——, effect of various treatments on, 406
Psycho-sedative action, of indolyl-ethyl-piperazine derivatives, in cat, rat and mouse, 187
Ptosis, induction by indolyl-ethyl-piperazine derivatives, 193
——, induction by sympathetic blockade, effect of (+)-*N*-(1-phenylethyl)guanidine on, in mouse, 267

Ptosis (*cont.*)
——, induction by sympathetic nerve stimulation, effect of guanethidine, bretylium, bethanidine and syrosingopine on, in rat, 274
2-Pyridine aldoxime methochloride (PAM), effect on motor response of *Schistosoma mansoni* to anticholinesterases, 658
Pyridostigmine, and metabolites, in liver, after intramuscular injection, 399
——, excretion and metabolism, in rat, 393
——, in rat tissues, after intramuscular injection, 397
——, plasma protein binding of, 398
——, renal excretion of, in hen, 396
——, urinary excretion of, 395
cis-1-(4-Pyrrolidin-1′-ylbut-2-enyl)pyrrolid-2-one, muscarinic action and preparation of, 56
1-(4-Pyrrolidin-1-ylbutyl)-pyrrolid-2-one hydrogen oxalate, muscarinic action and preparation of, 56
4-Pyrrolidin-1′-ylbut-2-ynyl acetate, muscarinic action and preparation of, 56
1-(4-Pyrrolidin-1′-ylbut-2-ynyl)cyclopentan-2-one hydrochloride, muscarinic action and preparation of, 56
4-Pyrrolidin-1′-ylbut-2-ynyl dimethylcarbamate, muscarinic action and preparation of, 56
N-(4-Pyrrolidin-1′-ylbut-2-ynyl)phthalimide, muscarinic action and preparation of, 56
N-(4-Pyrrolidin-1′-ylbut-2-ynyl)succinimide, muscarinic action and preparation of, 56
7-Pyrrolidin-1′-ylhept-5-yn-2-one hydrogen oxalate, muscarinic action and preparation of, 56
1-*p*-Pyrrolidin-1-ylphenyl)-pyrrolid-2-one, muscarinic action and preparation of, 56

Q

Quaternary compounds, ammonium. *See* Ammonium compounds, quaternary
Quinidine, antifibrillatory effect on response to electrical stimulus, compared with pronethalol and propranolol, in guinea-pig atrium, 6
Quinine, effect on bovine serum-albumin binding of sulphamethoxypyridazine, 707

R

RO-2-683. *See* (2-Dimethylcarbamoyloxy-5-phenylbenzyl)trimethylammonium
RO-2-1250. *See* [3-*N*-*p*-Chlorophenyl-(*N*-methylcarbamoyloxy)phenyl]trimethylammonium
α-Receptors, cardiovascular, response to yeast extract, 144
Receptors, catechol amine, response to (−)-noradrenaline, (−)-α-methylnoradrenaline and (−)-metaraminol, in spinal cat, 179
——, ganglionic, mammalian, response to antiacetylcholines, 662
——, muscarinic, mammalian, response to cholinomimetic agents, compared with *Schistosoma mansoni*, 662
——, ——, structure, resemblance to central tremorogenic site, 65
——, peptide, in ganglion and suprarenal medulla, 456
β-Receptor blockade, propranolol-induced, cardiovascular effects of, 330
β-Receptor-blocking agents, effect of, on response of blood pressure, to morphine, in cat, 199
——, ——, on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, ——, on response of pyriform cortical cells, to noradrenaline, in cat, 100
β-Receptor-blocking agents, effect of, on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, ——, on response of large and small intestine preparations, to nicotine, choline phenyl ether and ββ-dimethylacryloylcholine, 81–83
——, ——, on response of pyriform cortical cells, to noradrenaline, in cat, 100
Receptor-drug interaction, analysis, 9
Reserpine, effect of, on activity, in mouse, 252
——, ——, on brain stem histamine and methylhistamine, in cat, 497
——, ——, on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, ——, on response to cervical stimulation, dimethylpiperazinium, tyramine and noradrenaline, in spinal cat, 174
——, ——, on striatal homovanillic acid and dopamine, in guinea-pig, coypu and *Meriones*, 390
——, ——, ——, in rat, 388
——, ptosis induced by, response of mouse heart noradrenaline to, effect of (+)-*N*-(1-phenylethyl)-guanidine on, in mouse, 267
Respiration, response to M320, 312
Ronnel, and oxygen analogue of, effect on motor activity of *Schistosoma mansoni*, 658

S

SU-1194. *See bis*-(Diethylaminoethyl)diethylaminoethylamine
Salicylate, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
Salicylic acid, serum concentration, and urinary excretion of, in man, 461
——, ——, decrease in, 463
Salicyluric acid, urinary excretion of, 465
Salivation, induction by indolyl-ethyl-piperazine derivatives, 193
——, induction by scopinium bromide, 596
Sarcosyl-oxytocin. *See* Oxytocin analogues
Sartorius nerve-muscle preparation, frog, response of to neural electric shocks and direct stimulation, effect of ethonium ions on and on nerve axons, 219, 223
Schistosoma mansoni, acetylcholine in, effect on motor activity, 656
——, extract, effect on isolated guinea-pig ileum, 660
Scopinium bromide, chemistry of, 597
——, effect on response to dimethylphenylpiperazinium, acetylcholine and adrenaline, 594
——, pharmacology of, 591, 598
Scorpion, venom of. *See* Venom, scorpion
Sedatives, effect on activity, in mouse, 252
Sinus outflow, coronary, response to bradykinin, kallidin and eledoisin, in dog, 18
Skin wounds, tensile strength of, effect of polyester-sponge exudate and hydrocortisone on, in adrenalectomized rat, 379
Small intestine, isolated and superfused, response to cheese, 130
——, ——, response to histamine and yeast extract, and effect of amine oxidase inhibition on, 157
Sodium, organ-bath concentration, effect on response of isolated nerve fibres to scorpion venom, after electrical stimulation, 669
——, urinary excretion of, effect of *p*-chloromercuribenzoate on, in rat, 51
——, ——, effect of frusemide on, 28

Sodium ions, urinary excretion of, effect of carbenoxolone on, 414
Sodium nitrite. *See* Nitrite
Sodium sulphate, toxicity of, in frog larva, 423
Solypertine tartrate (Win 18,413-2). *See* 7-[2-(4-*o*-Methoxyphenylpiperazine-1-yl)ethyl]-5*H*-1,3-dioxolo[4,5-*f*]indole tartrate
Spleen, cat, perfused chronically denervated or reserpinized, response to angiotensin, vasopressin and tyramine, 689
——, pregnant rat, 5-hydroxytryptamine content, 240
Stimulants, effect on activity, in mouse, 250
Strychnine, response to, effect of cinnamohydroxamic acid on, in mouse, 47
Substance P, response of superior cervical ganglion to, 455
Succinylcholine, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, response of extraocular muscle to, and effect of atropine, tubocurarine, hexamethonium, phenoxybenzamine and pronethalol on, in anaesthetized cat, 206
Sulphamethoxypyridazine, displacement from binding to bovine serum-albumin, by anionic drugs, 706
Sulphinpyrazone, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
Sympathomimetic effects, of cheese and tyramine, after amine oxidase inhibition, in cat, 131, 134
——, of xylocholine/bretylium and guanethidine, in cat, 168
Syrosingopine, effect of, on cardiovascular response, to propranolol, 324
——, ——, on heart and spleen noradrenaline, in rat, 273, 277
——, response to, effect of noradrenaline on, 276

T

Tachyphylaxis, to effect of galantamine on blood pressure, 296
——, to response to oxytocin, 622, 625
——, to sympathomimetic agent, after yeast extract injection, in cat, 145
——, to tyramine, after intraduodenal tranylcypromine, in pithed rat, 127
Tetanus toxin, adsorption by brain and liver homogenates, rat and pigeon, 741
——, adsorption by subcellular fractions of brain, rat and pigeon, 742
——, binding to bovine gangliosides, effect of calcium on, 743
——, effect on brain, liver and muscle mitochondria, in resistant and susceptible species, 730
——, effect on oxidative phosphorylation of mitochondria, in rat and pigeon, 732, 735
——, mode of action, 744
——, subcellular fixation in susceptible and resistant species, 740
Tetrabenazine, effect on striatal homovanillic acid and dopamine, in guinea-pig, coypu and *Meriones*, 390
——, ——, in rat, 388
Tetraethylammonium, effect of, on bovine serum-albumin binding of sulphamethoxy-pyridazine, 707
——, ——, on neurally-evoked contraction, 219
——, ——, ——, in presence of tubocurarine, 220
——, ——, on response of isolated nerve fibres to scorpion venom, after electrical stimulation, 671
——, ——, on response to direct muscle stimulation and on nerve axons, 223
Tetraethylammonium (*cont.*)
——, response of acetylcholine metabolism to, effect of choline on, 557
——, ——, in physostigmine-perfused cat superior cervical ganglion, 555
Tetrafluorobenzene, analgesic and anaesthetic activity of, in mouse, 482
——, isomers of, analgesic activity, and toxicity of, 484
1,2,4,5-Tetrafluorobenzene, anaesthetic activity, and cardiovascular effects, in dog, 487
——, analgesic activity, compared with other anaesthetics, 486
——, respiratory action, 489
Tetramethylammonium, effect on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, response of ganglionic potential to, and effect of hexamethonium and hyoscine on, 543, 548
Tetrodotoxin, central depressant effect of, in mouse, 435
——, effect on cerebro-cortical response to electrical stimulation, in cat, 439
——, response of motor activity to, 436
——, ——, effect of phenobarbitone on, 438
——, toxicity of, effect of phenobarbitone on, and site of action of, 437
Tibialis nerve–gastrocnemius preparation, frog, effect of scorpion venom on response to electrical stimulation, 666
Tolazoline, + atropine + hexamethonium, effect on response of blood pressure to staphylococcal α-toxin, in adrenalectomized and vagotomized cat, 581
Tolbutamide, effect on bovine serum-albumin binding of sulphamethoxypyridazine, phenoxymethylpenicillin and phenol red, 705, 707
α-Toxin, staphylococcal, effects on cardiovascular system, in adrenalectomized and vagotomized cat, 580
——, ——, response of perfused cat and rabbit heart to, and effect of papaverine and aminophylline on, 584
Tranylcypromine, effect on response of blood pressure, to cheese, in pithed rat, 122
——, ——, to tyramine, 126
——, effect on response of oestrous cycle, to α-methylmetatyrosine, in mouse, 602
——, sympathomimetic effect on response to cheese, in cat, 131, 134, 135
Tremor, Parkinsonian, effect of methixene on, 349
Tremors, induction of, by oxotremorine and analogues, 62
——, recording of, apparatus for, 345
Triethylcholine, response of acetylcholine metabolism to, effect of choline on, 557
——, ——, in physostigmine-perfused cat superior cervical ganglion, 555
Triethyl - (3 - hydroxyphenyl)ammonium, effect on neurally evoked contraction, 219
——, ——, in presence of tubocurarine, 220
——, effect on response to direct muscle stimulation and on nerve axons, 223
Trimethyl[4-(*N*-methylacetamido)but-2-ynyl]ammonium iodide, muscarinic action and preparation of, 56
Trimethyl[4-(2-oxocyclopentyl)but-2-ynyl]ammonium iodide, muscarinic action and preparation of, 56
Trimethyl(6-oxohept-2-ynyl)ammonium iodide, muscarinic action and preparation of, 56
Trimethyl[4-(2-oxopyrrolidin-1-yl)but-2-ynyl]ammonium iodide, muscarinic action and preparation of, 56, 68
Trimethylpent - 2 - ynylammonium iodide, muscarinic action and preparation of, 68

Trimethylprop - 2 - ynylammonium iodide, muscarinic action and preparation of, 68
NNN'-Trimethyl-*N'*-(4-pyrrolidin-1'-ylbut-2-ynyl)urea hydrogen oxalate, muscarinic action and preparation of, 56
Trimethyl[4-(*NNN'*-trimethylureido)but-2-ynyl]ammonium iodide, muscarinic action and preparation of, 56
Tripellennamine, effect on response of blood pressure, to morphine, in cat, 199
Troxonium, response of acetylcholine metabolism to, in physostigmine-perfused cat superior cervical ganglion, 555
——, ——, in physostigmine-perfused cat nodose ganglion, 560
Tryptamine, effect on blood pressure of, and potentiation by α-methylbenzylhydrazine, in pithed rat, 124
Tryptophan, effect on blood pressure of, in pithed rat, 125
Tubocurarine, effect of, on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659, 661
——, ——, on response of extraocular muscle, to succinylcholine, in anaesthetized cat, 208
——, response of acetylcholine metabolism to, in physostigmine-perfused cat superior cervical ganglion, 555
Tyramine, effect of, on blood pressure, in cat, 145
——, ——, on motor response and response to cholinomimetic agents, of *Schistosoma mansoni*, 659
——, ——, on perfused chronically denervated or reserpinized cat spleen, 689
——, ——, on release of [^{3}H]-noradrenaline from perfused cat spleen, 688
——, from yeast extract, in cat, 148
——, response of blood pressure to, effect of chlorpromazine, cocaine, methysergide and hyoscine, in pithed rat, 122
——, ——, effect of noradrenaline on, in reserpinized dog, 283
——, ——, effect of route of administration on, 125
——, ——, potentiation by α-methylbenzylhydrazine, in fowl, 129
——, response to, effect of pronethalol and propranolol on, in guinea-pig atrium, 5
——, ——, effect of reserpine, α-methyldopa and α-methylmetatyrosine on, in spinal cat, 174
——, ——, restoration by metaraminol and α-methylnoradrenaline in reserpinized cat, 358
——, ——, restoration by α-methylmetatyrosine and α-methylmetatyramine, 360
——, ——, ——, effect of disulfiram on, 361
——, sympathomimetic response to, and effect of phenoxybenzamine and chlorpromazine on, 134
Tyrosine, effect on blood pressure of, in pithed rat, 124

U

Urea, excretion of, effect of cephaloridine on, in cat, 111
Uridine diphosphate transglucuronylase, inhibition of, by male fern extract, in rat-liver, 38
Urinary excretion, effect of M320 on, 315
——, of cephaloridine, mechanism of, in cat, dog, rabbit, monkey and hen, 108
——, of dapsone and di(*p*-aminophenyl)sulphoxide, in man, 214
——, of electrolytes, effect of carbenoxolone on, 415
——, of pyridostigmine, in rat, 395
——, of salicylic acid, in man, 463
——, of sodium and potassium, effect of *p*-chloromercuribenzoate on, 51
——, ——, effect of frusemide on, in rat, 28
Urine, flow of, effect of *p*-chloromercuribenzoate on, in rat, 53
Uterus, pregnant rat, 5-hydroxytryptamine content, 240
——, rat, response to oxytocin and oxytocin analogues, 618
——, rat and guinea-pig, response to electrical stimulation, effect of prostaglandins E_1 and $F_{2\alpha}$ and oxytocin on, 679

V

Vascular resistance. *See* Blood vessels
Vasoconstrictor action, of adrenaline and noradrenaline, 720
——, of angiotensin, vasopressin and tyramine on perfused cat spleen, 688, 689
——, of nicotine, 576
——, peripheral, of staphylococcal α-toxin, in adrenalectomized and vagotomized cat, 582, 583, 588
Vasodilator action, of adrenaline and noradrenaline, 719
——, of nicotine, 576
——, of plasma kinins, 24
Vasodilator agents, effect on response of coronary blood flow to staphylococcal α-toxin, in isolated rabbit heart, 584, 585, 587, 589
Vasopressin, dissociation from protein carrier, by chromatography on Sephadex G-25, 502
——, effect on perfused chronically denervated or reserpinized cat spleen, 689
——, effect on release of [^{3}H]-noradrenaline from perfused cat spleen, 688
——, effect on response to postganglionic nerve stimulation in perfused cat spleen, 686, 690
——, ganglionic stimulation by, response of nictitating membrane to, 455
Venom, scorpion, effect on myelinated nerve fibres, in frog, 666
——, ——, effect on response to electrical stimulation, action of 5-hydroxytryptamine on, 669
——, ——, electrical response to, effect of organ-bath sodium concentration on, 669
——, ——, spontaneous response to, effect of organ-bath calcium concentration on, 671
Vespa orientalis, F. *See* Wasp, oriental

W

Wasp, oriental, faeces. *See under* Faeces
Win 18,413-2. *See* 7-[2-(4-*o*-Methoxyphenylpiperazine-1-yl)ethyl]-5*H*-1,3-dioxolo[4,5-*f*]indole tartrate
Win 18,437. *See* 1-[2-(2-Methylindol-3-yl)ethyl]-4-phenylpiperazine
Win 18,501-2. *See* 1-[2-(5,6-Dimethoxy-2-methylindol-3-yl)ethyl]-4-phenylpiperazine
Wy 20788. *See* Penamecillin

X

Xylocholine, effect on release of catechol amines from spleen, in cat, 164
——, response to, effect of (+)-*N*-(1-phenylethyl)-guanidine on, 266
(+)-*N*-[1-(2,4-Xylyl)ethyl]guanidine, ptosis induced by, effect of (+)-*N*-(1-phenylethyl)guanidine on, in mouse, 267

Y

Yeast extract, response to, effect of monoamine oxidase inhibition on, in cat, rat and guinea-pig, 142
——, ——, site of action, 147